

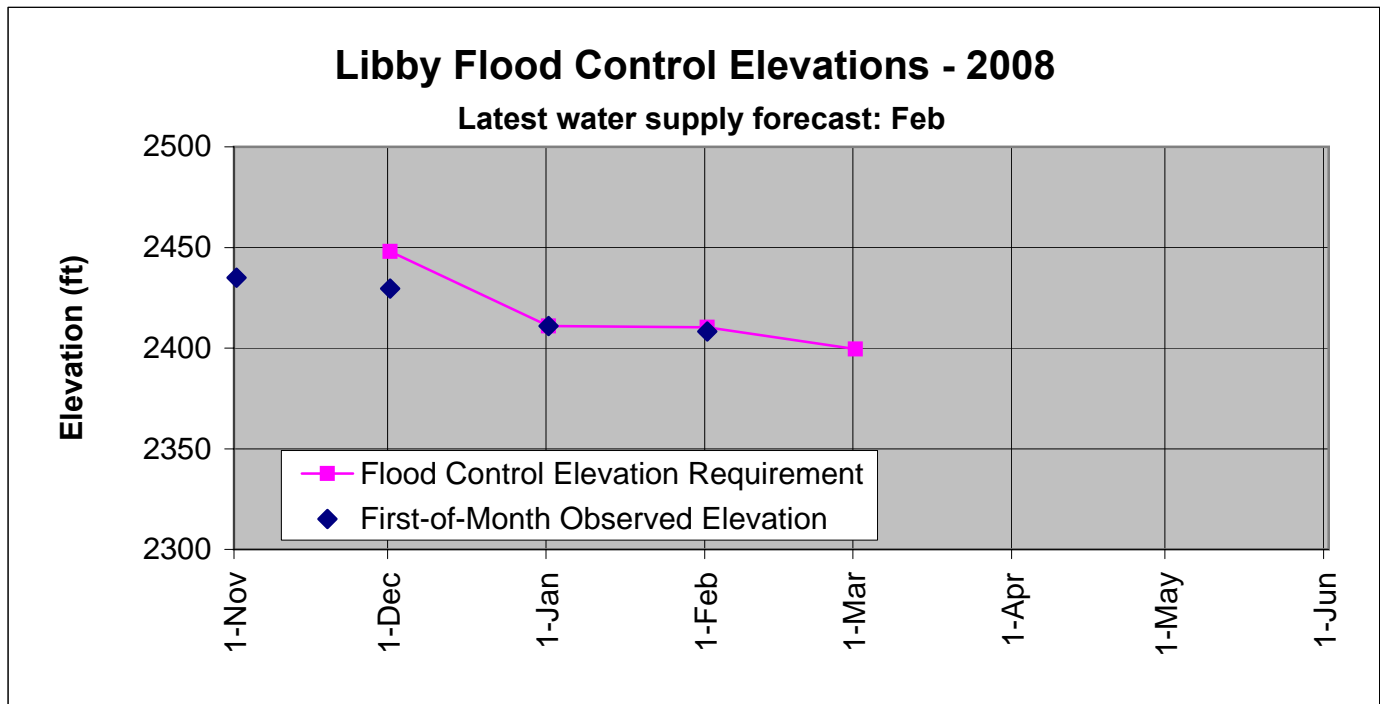
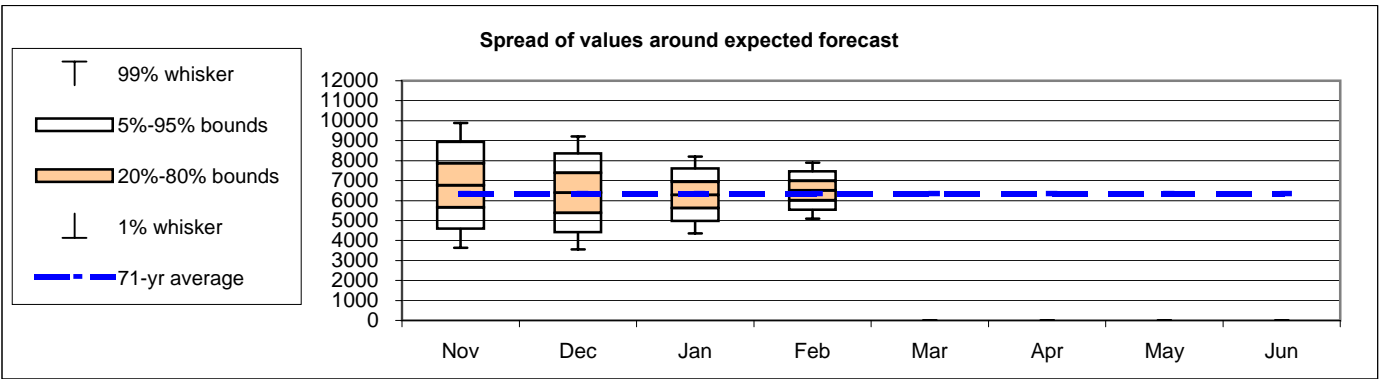
# Libby : February Runoff Forecast & Flood Control Calculation

WY 2008

Runoff Forecast and Flood Control			
Most Probable Runoff Volume:	Apr-Aug	6498	KAF
	Apr-Jul	5917	KAF
	May-Jul	5380	KAF
28/29 Feb Flood Control Space		2397	KAF
28/29 Feb Flood Control Elevation		2399.5	ft

1929-1999 Average	Percent of Average
6337	103%
5771	103%
5247	103%

Seasonal Flood Control		VARQ Flood Control Implemented						
Forecast Date >>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast	6764	6385	6282	6498				
First-of-Month Elev	2435.0	2429.7	2411.0	2408.2				
Date >>	30-Nov	31-Dec	31-Jan	28-Feb	15-Mar	31-Mar	15-Apr	30-Apr
Flood Control Space	500	2000	2025	2397				
Flood Control Elevation	2448.0	2411.0	2410.3	2399.5				



- Notes:
- The given forecast is the official Corps of Engineers forecast for Libby. If you have any questions please contact Ken Soderlind (503 808-3950), Patti Low (503 808-3958) or John McCoskery (503 808-3951).
  - Subsequent forecasts may differ from the originally published forecast due to updated values for precipitation, snow or streamflow.
  - Vermillion River snow measurements, with adjustments, are serving as a surrogate for Marble Canyon.

# Libby : February Runoff Forecast & Flood Control Calculation

Apr-Aug Runoff Forecast Calculation:						
Variable	Month(s)	Units	Observed Value	Percent of Average	Regression Coefficient	Marginal Runoff (KAF)
			A		B	=A*B
Glacier NP RP, BC	ΣOct,Nov,Dec Prcp	inches	25.04	115%	19.9	497.5
Kaslo, BC	ΣOct,Nov,Dec Prcp	inches	11.98	106%	42.7	511.9
Fortine 1N, MT	ΣOct,Nov,Dec Prcp	inches	2.50	63%	107.3	268.2
West Glacier, MT	ΣOct,Nov,Dec Prcp	inches	8.88	103%	45.9	407.9
Banff, AB	ΣDec,Jan Prcp	inches	2.22	88%	92.1	204.6
Fernie, BC	ΣDec,Jan Prcp	inches	11.87	102%	38.6	458.0
Cranbrook, BC	ΣDec,Jan Prcp	inches	3.30	96%	59.8	197.0
Libby 1 NE RS, MT	ΣDec,Jan Prcp	inches	5.71	127%	70.7	403.4
Vermillion R #3, BC	1-Feb SWE <sup>3</sup>	inches	7.36	83%	----	
Marble Canyon, BC	1-Feb SWE <sup>3</sup>	inches	9.40		57.6	541.5
East Creek, BC	1-Feb SWE	inches	27.76	108%	23.1	640.7
Hawkins Lake, MT	1-Feb SWE	inches	18.70	104%	26.9	502.5
Stahl Peak, MT	1-Feb SWE	inches	27.10	114%	23.5	637.5
Intercept			1		1227.2	1227.2
1-Feb Forecast (KAF)					Σ	6497.9

## Data used in Libby Water Supply Forecast

WY 2008

Climate Data	June	July	Aug	Sep					Units	
SOI	0.20	-0.50	0.10	0.20						
Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Units	
Cranbrook A, BC			57.90	25.80					mm	
Fernie, BC	137.20	85.40	172.00	129.60					mm	
Glacier NP Rogrs Pass, BC	168.60	211.00	256.50						mm	
Kaslo, BC	81.80	87.80	134.60						mm	
Banff, AB			36.60	19.80					mm	
Fortine 1N, MT	0.62	1.02	0.86						inch	
West Glacier, MT	2.96	2.00	3.92						inch	
Libby 1 NE RS, MT	2.05	1.91	3.03	2.68					inch	
Snow Water Equiv				1-Jan	1-Feb	1-Mar	1-Apr	1-May	15-May	Units
Vermillion Rvr No. 3, BC				136	187					mm
East Creek, BC				562	705					mm
Morrissey Ridge, BC										mm
Moyie Mountain, BC										mm
Sullivan Mine, BC										mm
Hawkins Lake, MT					18.7					inch
Stahl Peak, MT					27.1					inch
Streamflow				Jan	Feb	Mar	Apr	May	Jun	Units
Libby Inflow Volume				159.7						KAF
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units	
Libby FOM Elev	2435.0	2429.7	2411.0	2408.2					feet	